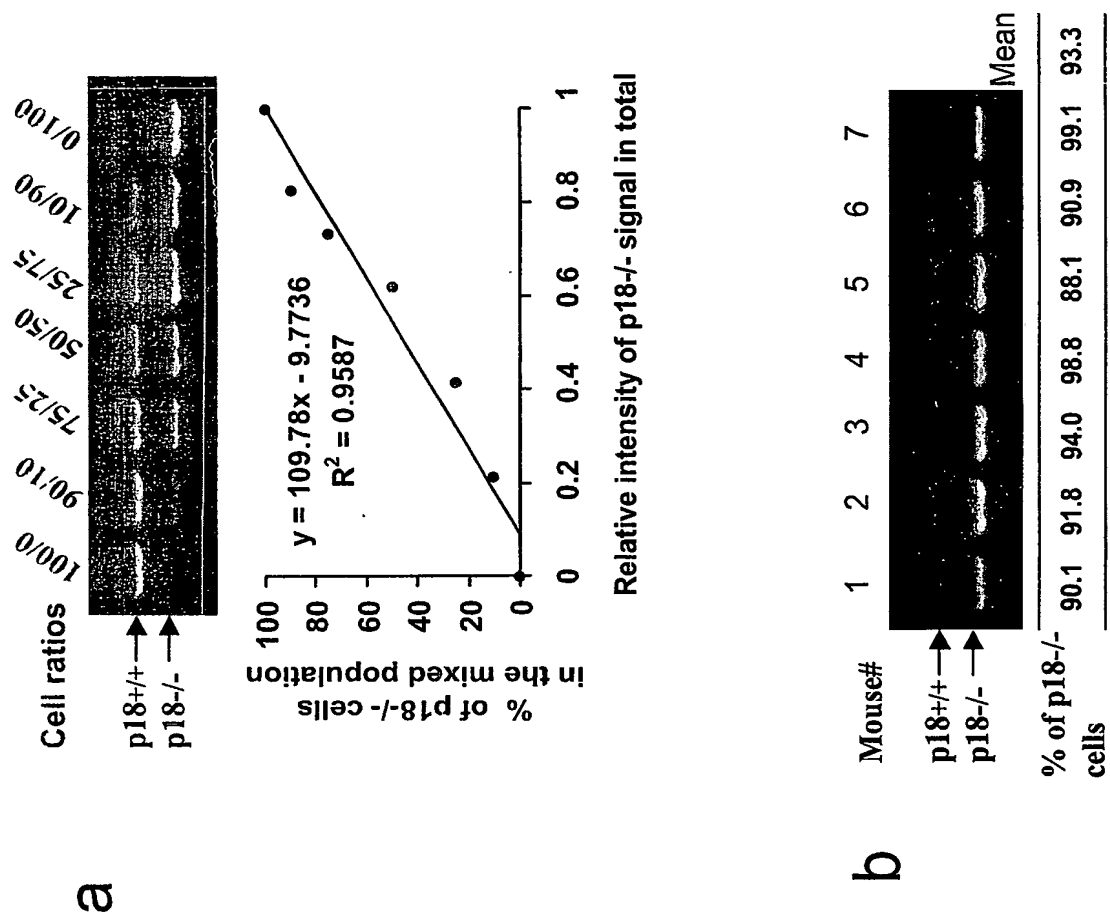


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Fig. 1



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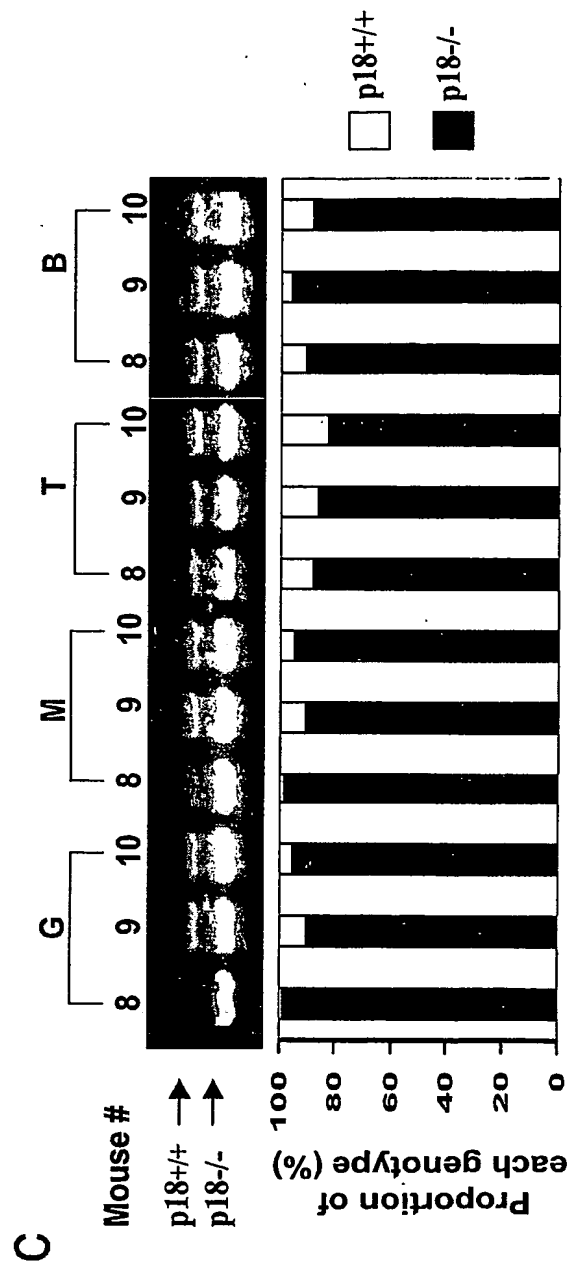
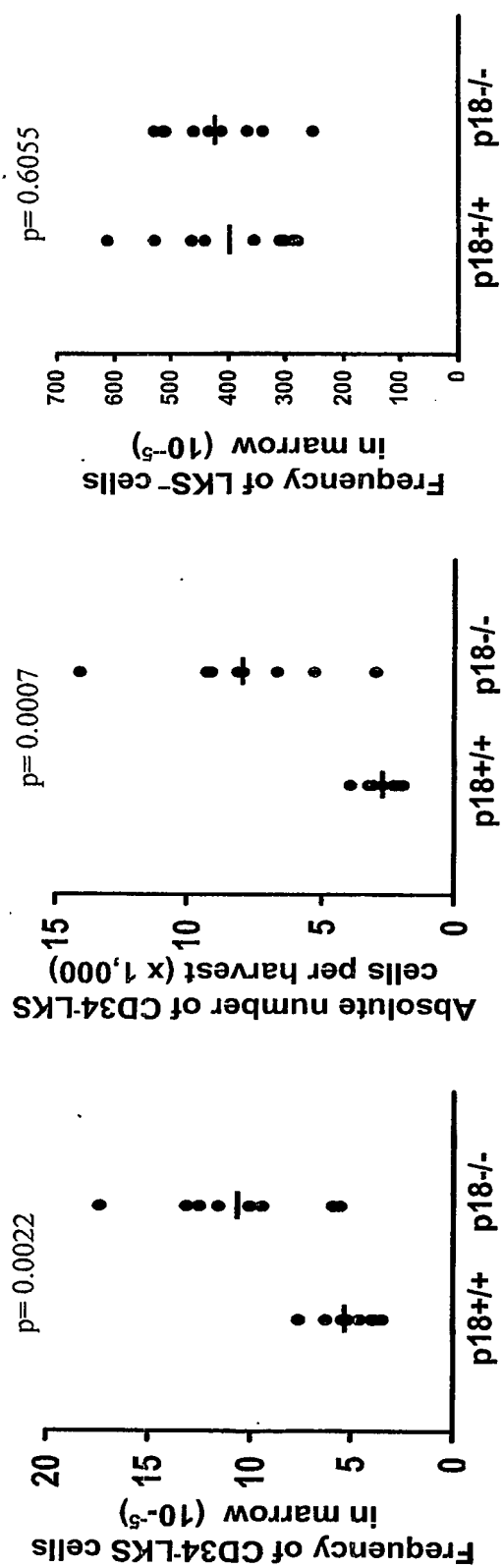
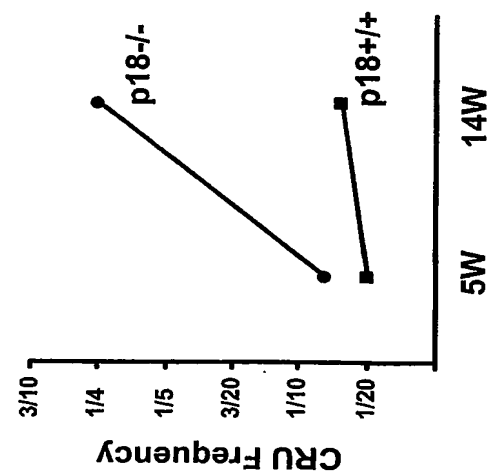


Fig. 3

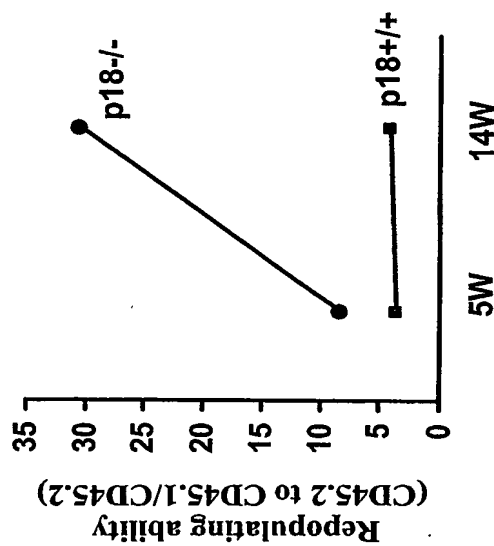
a



b



c



d

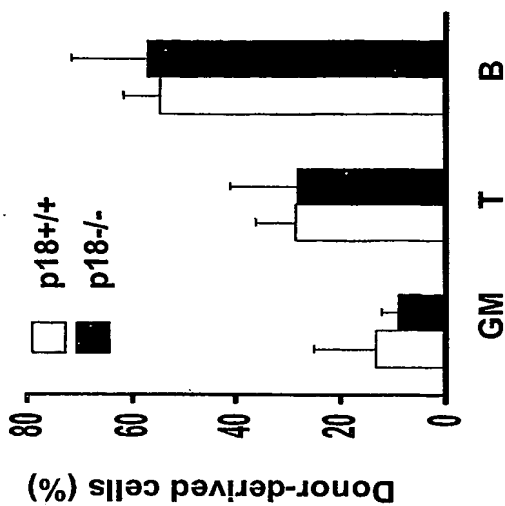
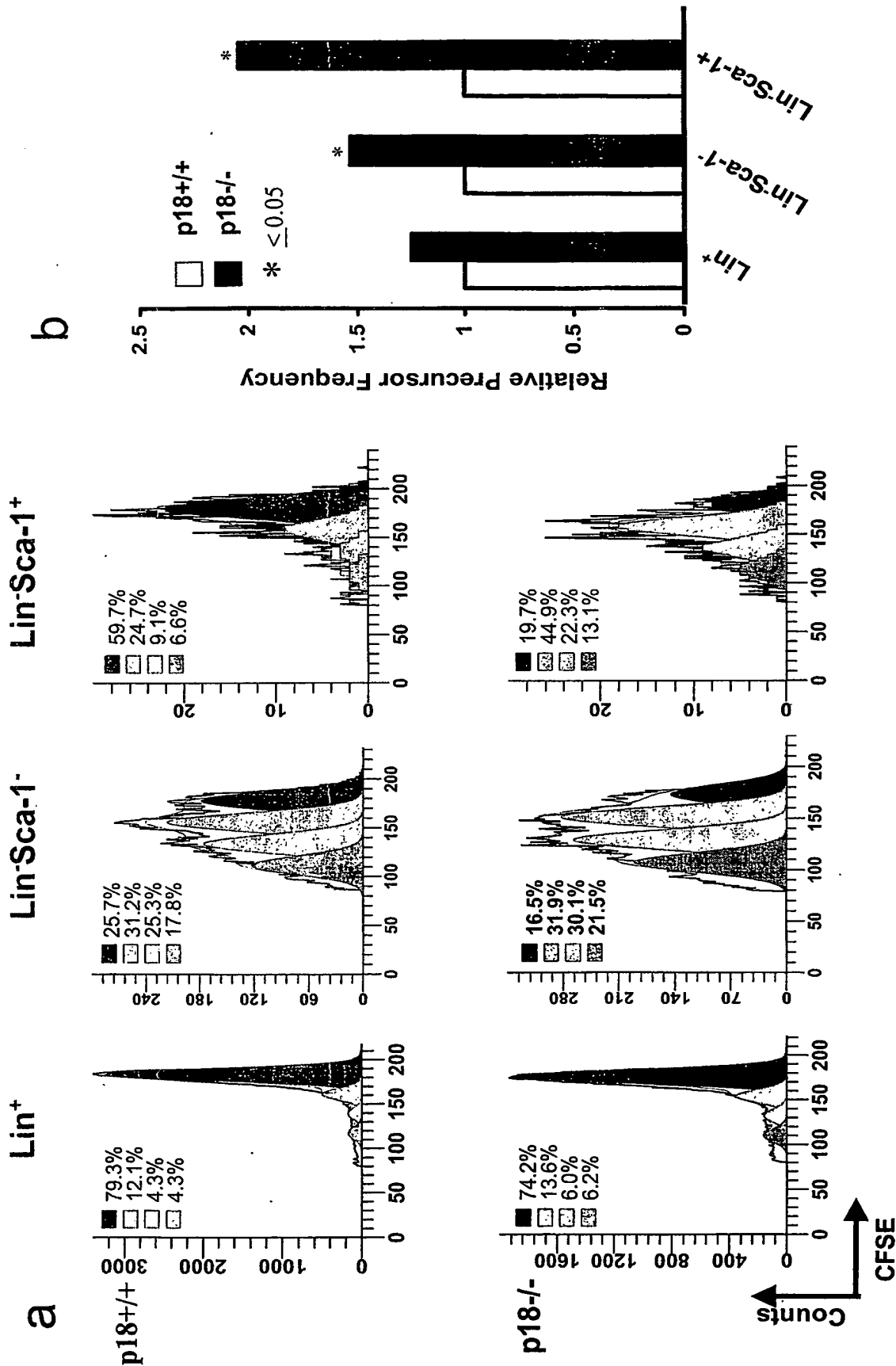
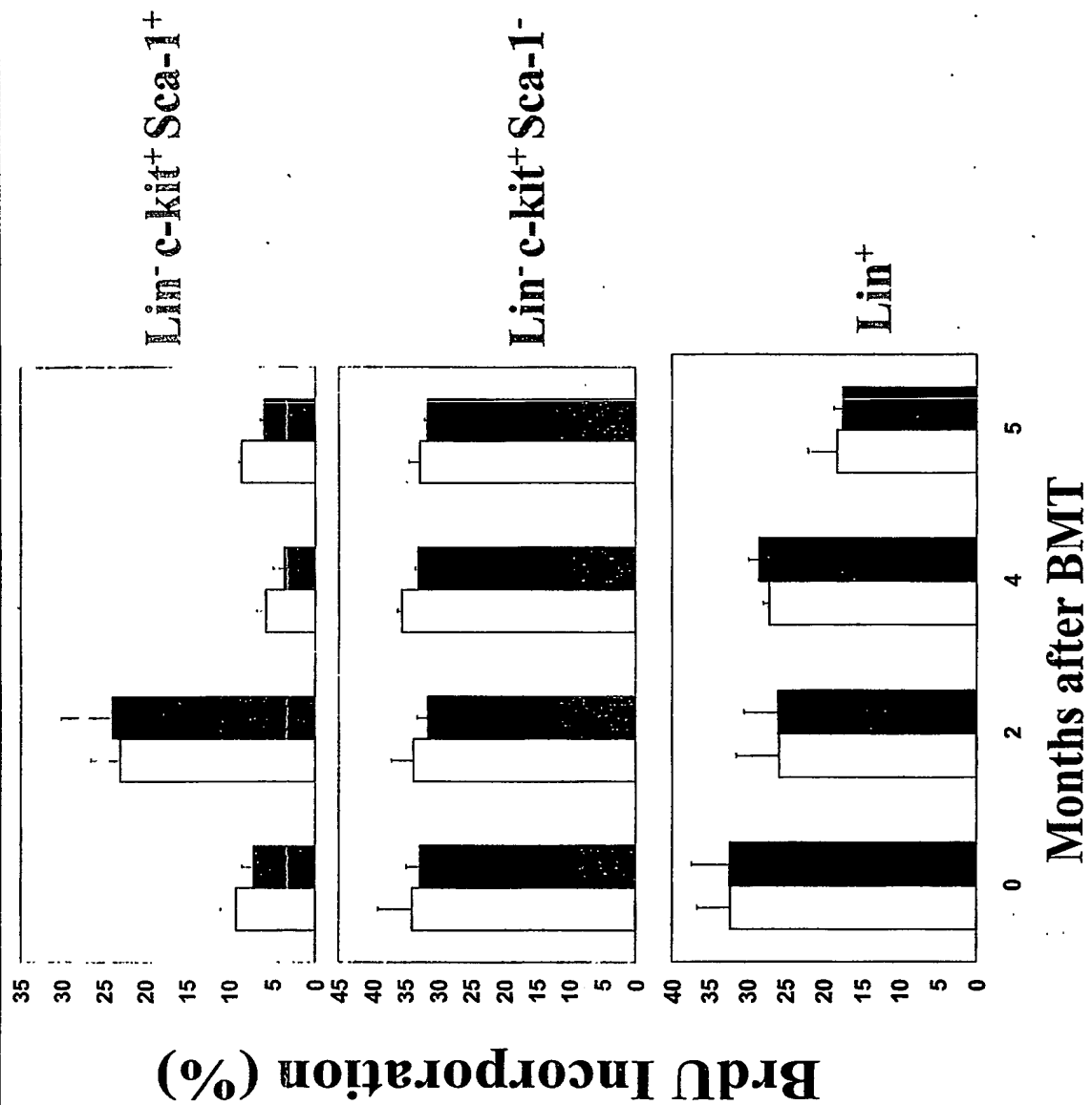


Fig. 4



**Fig. 5**

**There is no increase of BrdU incorporation in p18-/- hematopoietic cell subsets from non-transplanted (month 0) or transplanted (month 2, 4, 5) animals**



(n=4-5 mice/each genotype/each time point)

Fig. 6

A similar proliferative rate between p18<sup>+/+</sup> and p18<sup>-/-</sup> genotypes during 3-day culture after single LKS cells from non-transplanted mice were plated

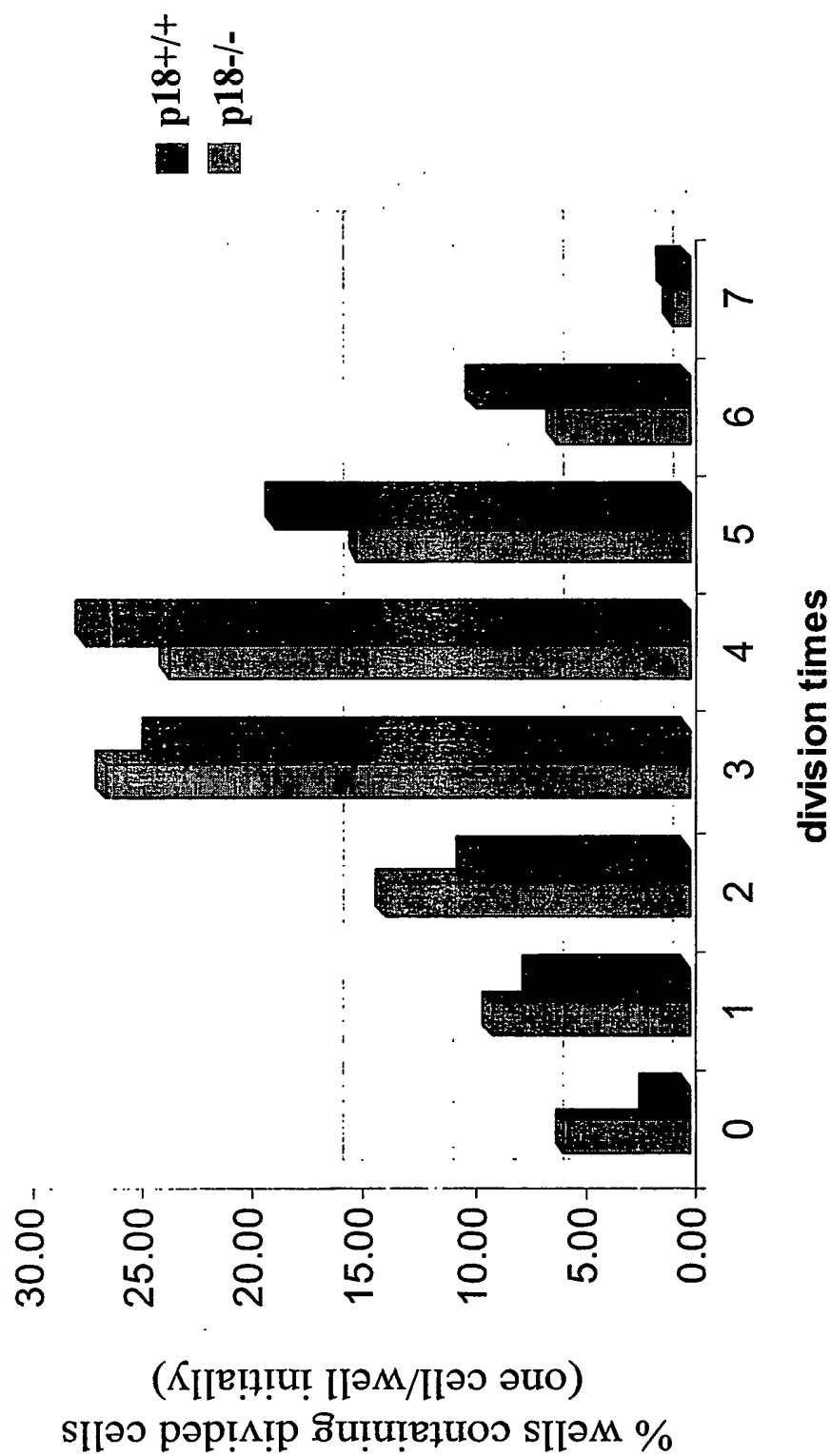


Fig. 7

A similar proliferative rate between p18<sup>+/+</sup> and p18<sup>-/-</sup> genotypes during 3-day culture after single CD34-LKS cells from non-transplanted mice were plated

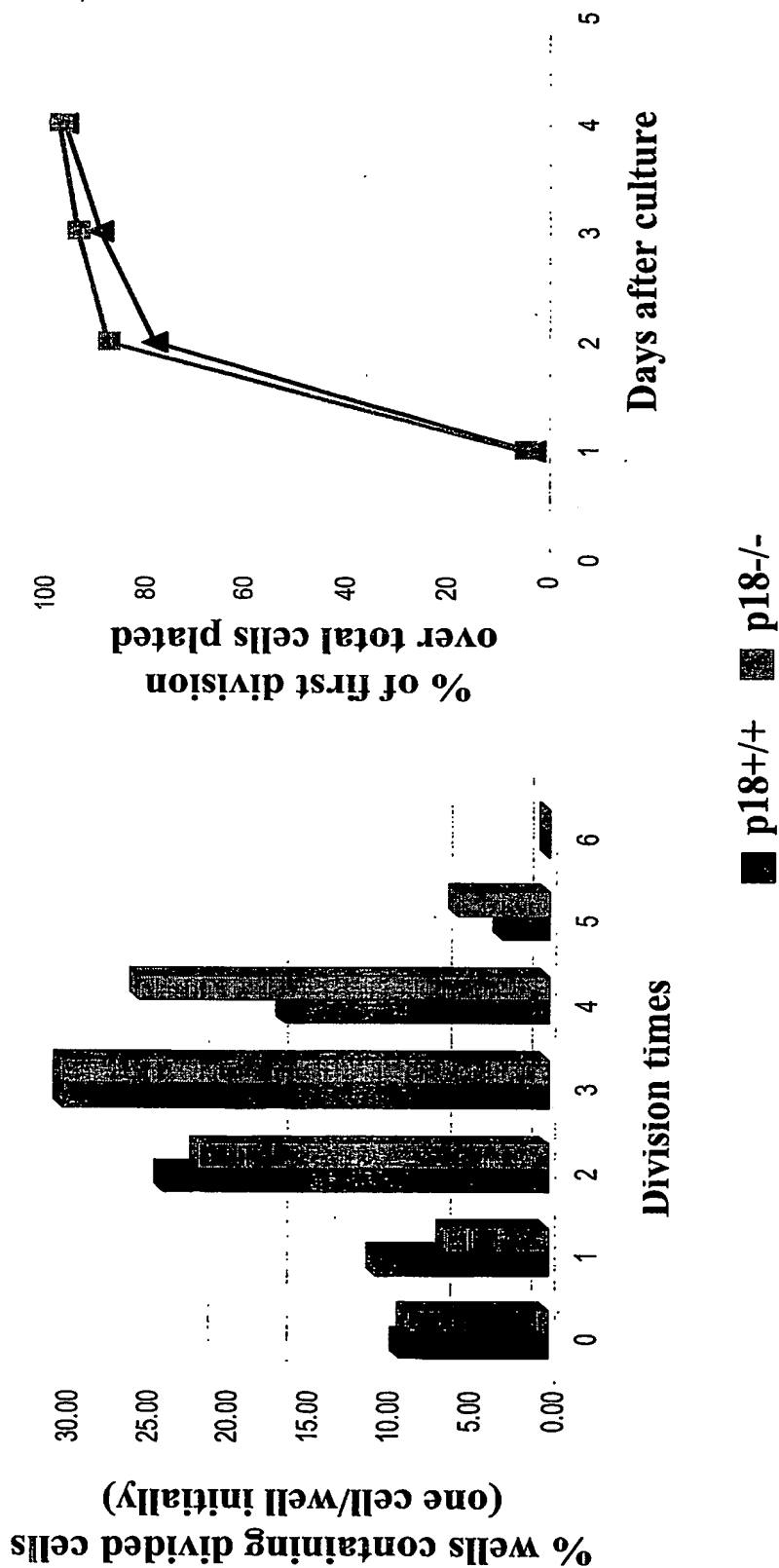


Fig. 8

A similar proliferative rate between p18+/+ and p18-/- genotypes during 3-day culture after single CD34-LKS cells from transplanted mice (2 months post transplant) were plated

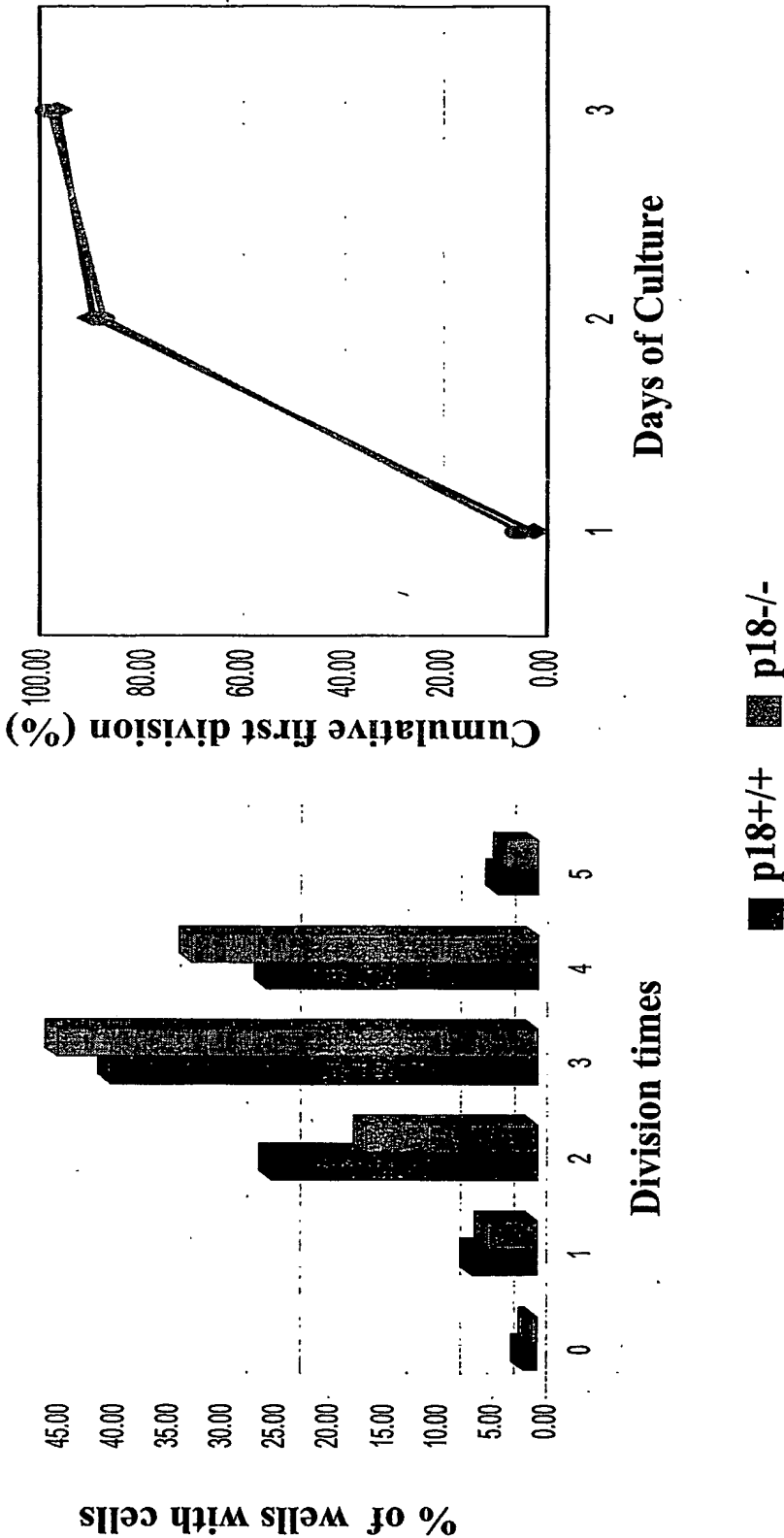
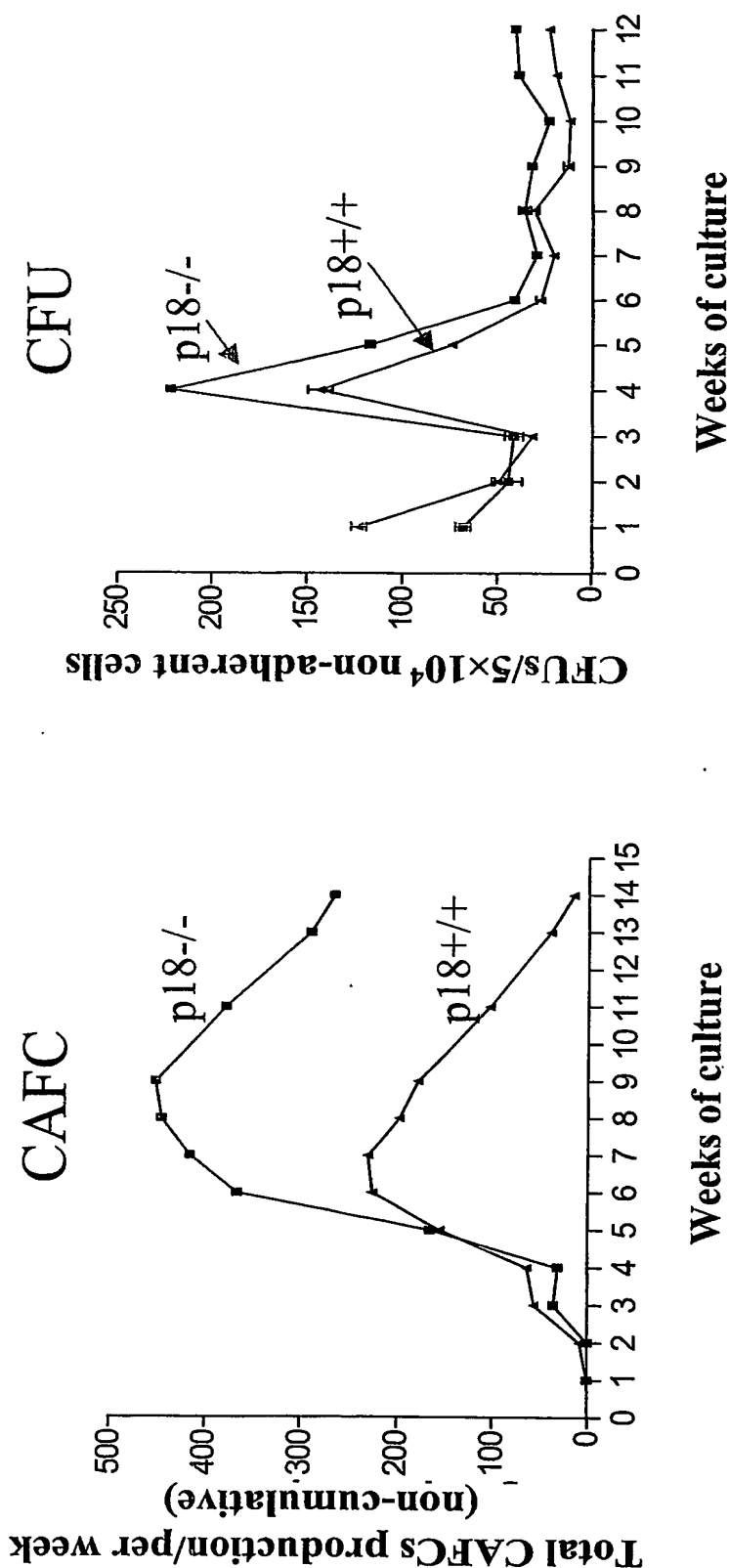




Fig. 9

# Selective expansion of CAFC but not CFU during the long-term culture



Bone marrow cells from each mouse were cultured in two T75 flasks with the Dexter long-term culture medium, CAFCs were counted under microscope. Non-adherent cells were collected every week and used for CFC assay. Data were summarized from samples of 4 flasks from two mice in each group.

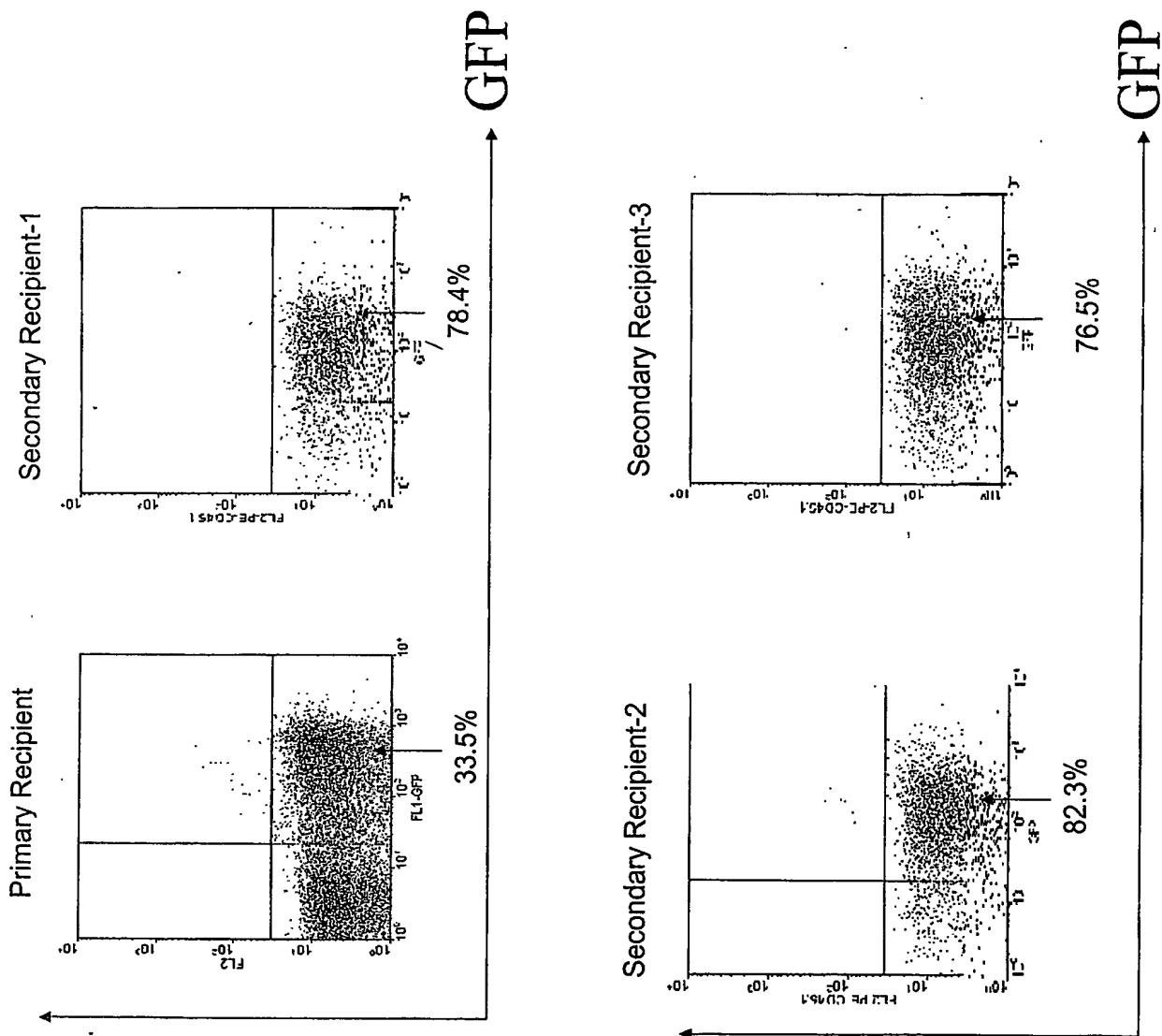


Fig. 10

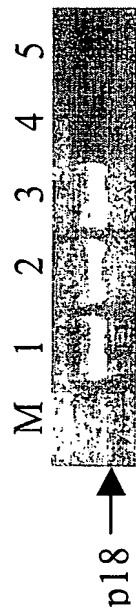
*Fig. 11*

Fig. 12

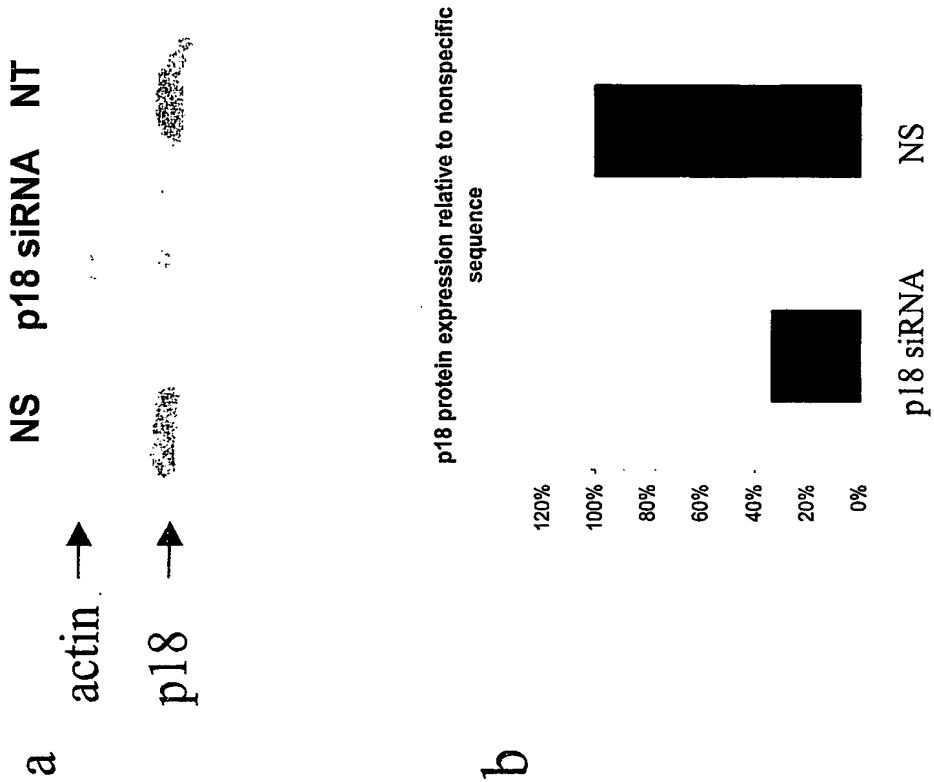
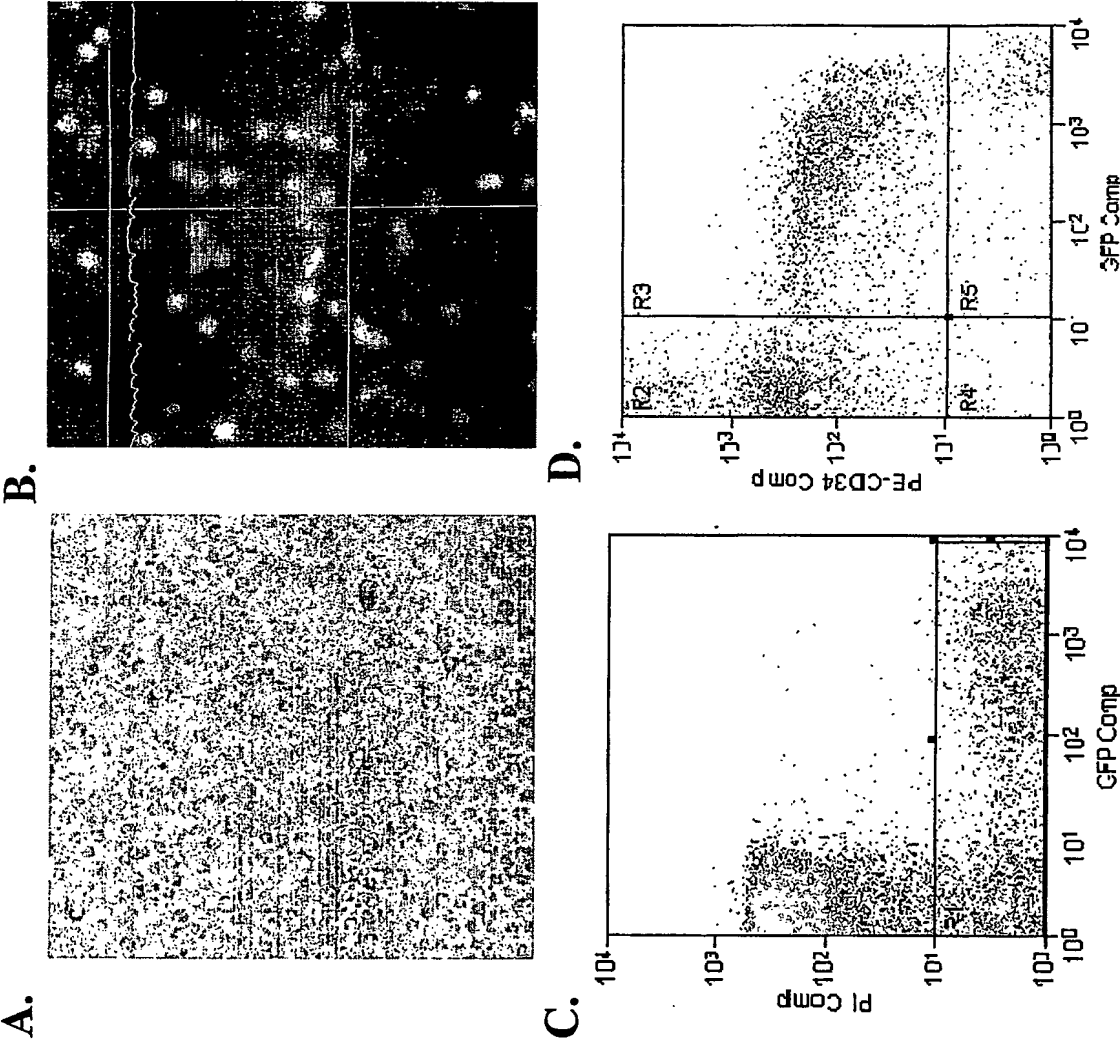


Fig. 13



Fluorescent microscopy



Contrast microscopy

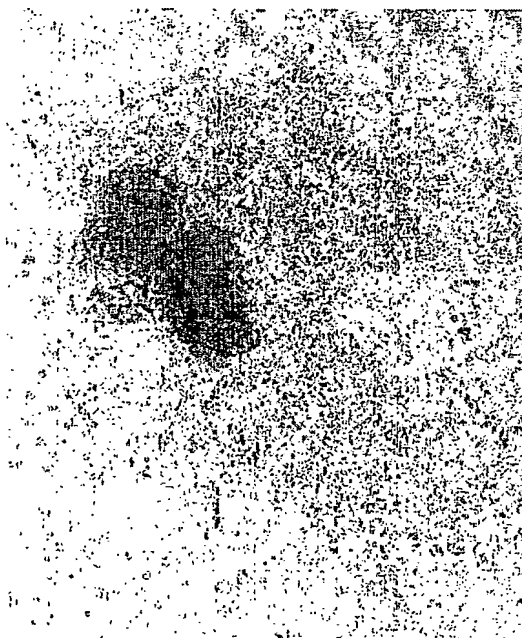


Fig. 14

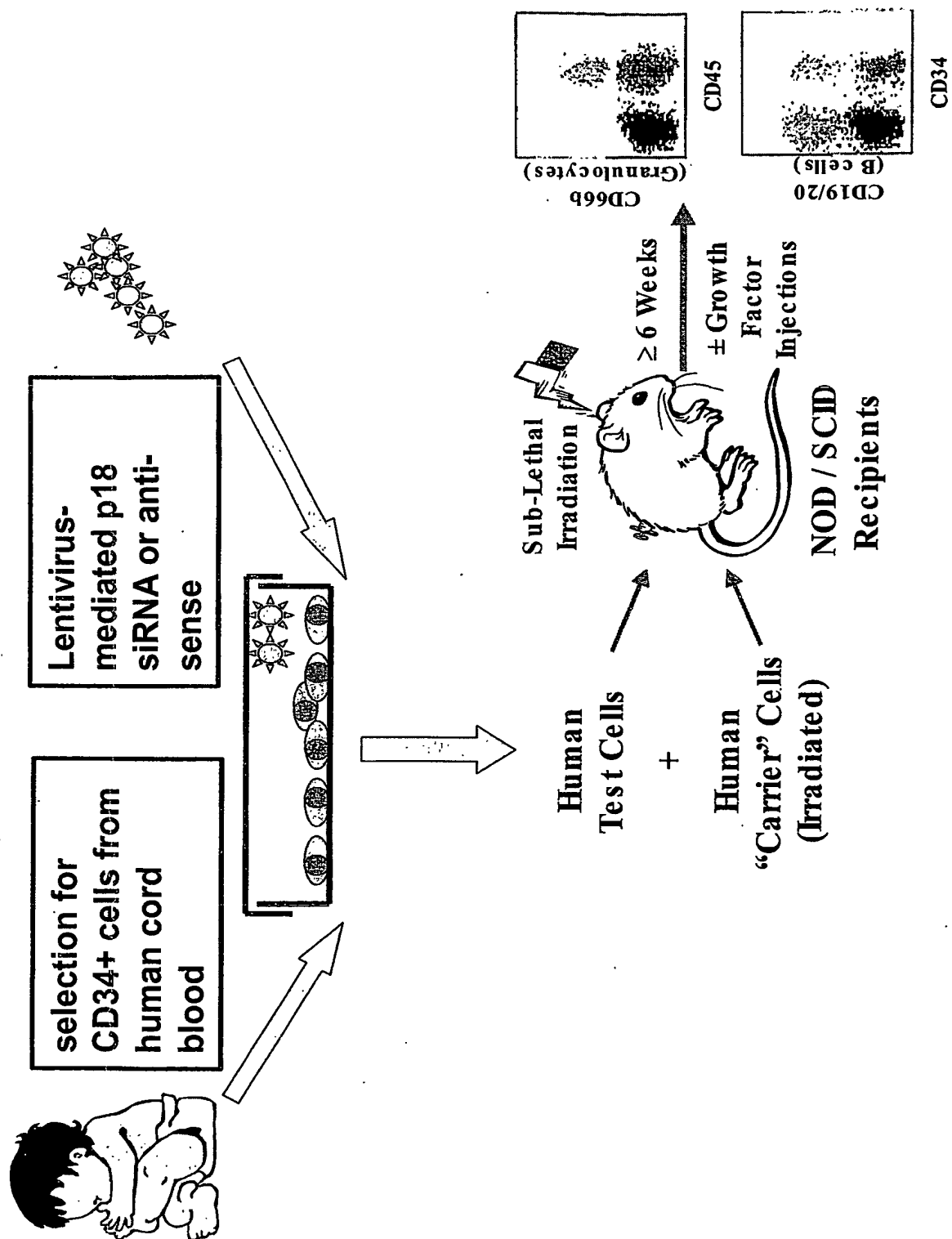
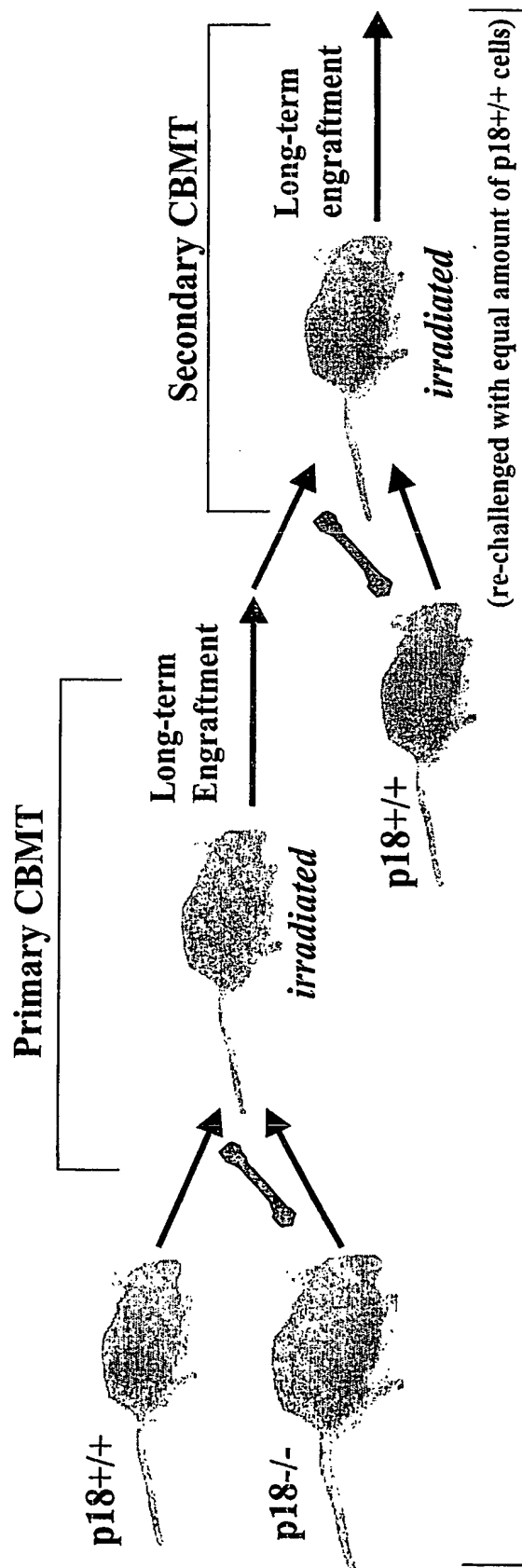


Fig. 15

Fig 16

# Competitive and Serial Bone Marrow Transplantation



1. Semi-quantitative PCR analysis for ratios of the two competitive cell populations in bulk cells or different lineages based on relative intensities of the two genotypic bands on the gels;
2. Single cell or colony PCR for the absolute representation of each genotype in the stem or progenitor compartment based on the appearance of a distinct band on the gel.





Fig 17

# Sorting strategies for CD34-LKS cells

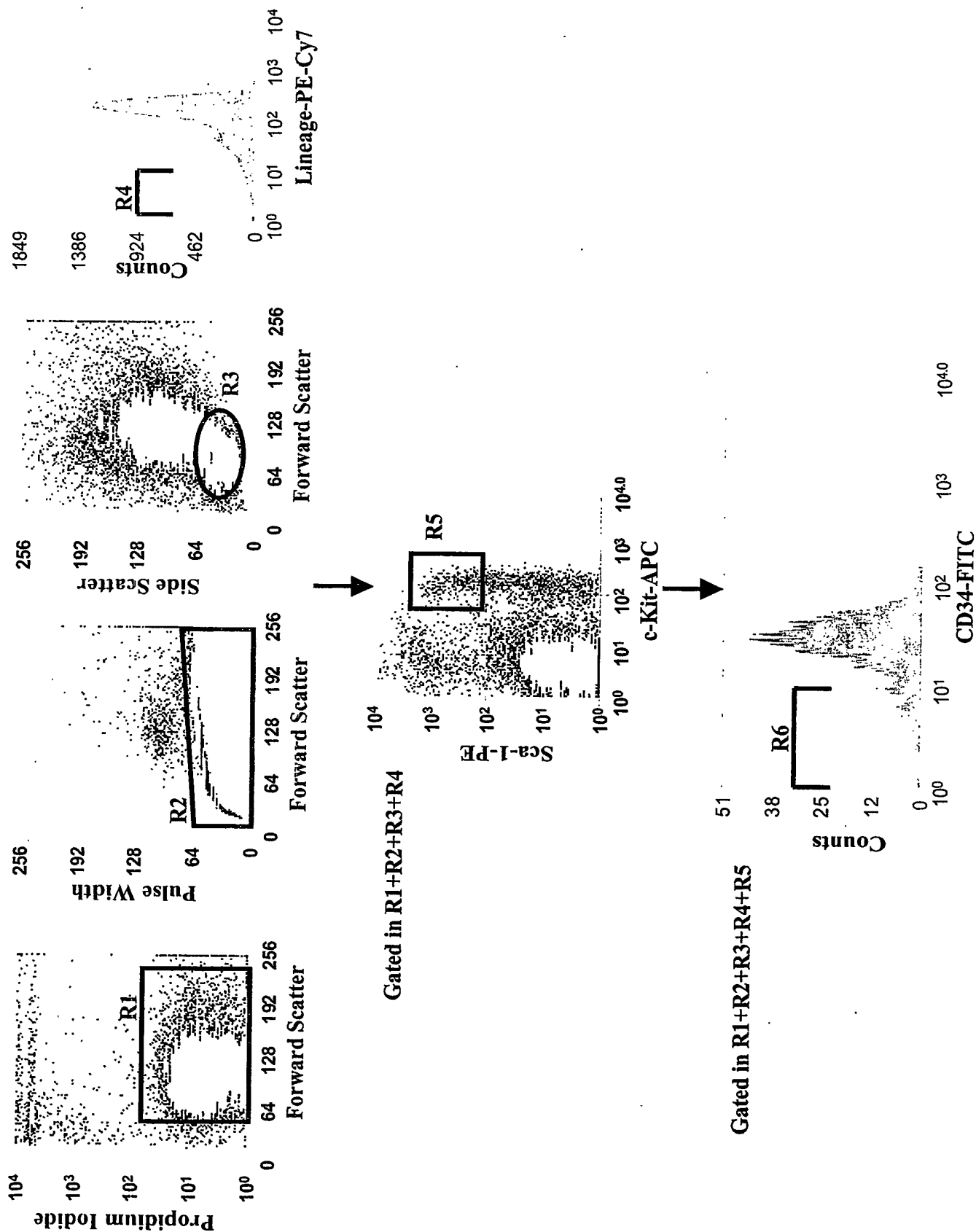
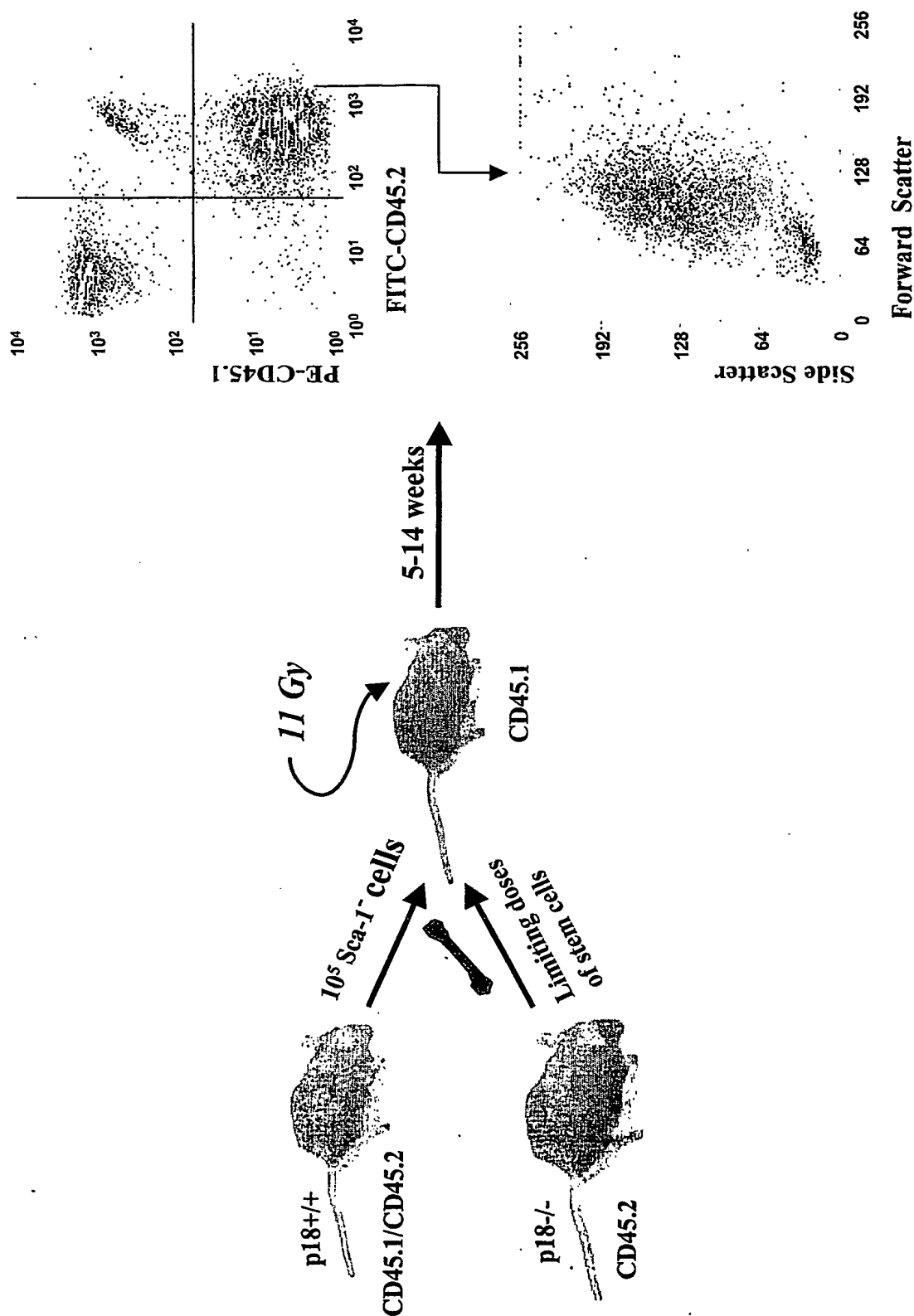


Fig 18

# Assay for the Competitive Repopulating Unit (CRU)



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